AMENDMENTS TO THE CLAIMS

Please amend the claims as follows.

1. (Currently Amended) A method for storing [[a]] data ~~set having an enabled probe identification component and an associated data component~~, comprising:

encountering a probe during execution of an instrumented program, wherein the probe is associated with a first enabled probe identification (EPID) and a second EPID and wherein the first EPID is associated with a first action and the second EPID is associated with a second action;

executing the first action upon encountering the probe to obtain first data and executing the second action to obtain second data;

~~obtaining data from an instrumented program using a probe;~~

~~associating the data with an enabled probe identification; and~~

storing the first data ~~in the data set,~~ and the first EPID in a first per-consumer buffer;

storing a first metadata and the first EPID in a first per-consumer metadata table, wherein the first metadata defines a layout of the first data stored in the first per-consumer buffer, and wherein the first per-consumer buffer and the first per-consumer metadata table are accessible by a first consumer;

storing the second data and the second EPID in a second per-consumer buffer; and

storing a second metadata and the second EPID in a second per-consumer metadata table, wherein the second metadata defines a layout of the second data stored in the second per-consumer buffer, and wherein the

second per-consumer buffer and the second per-consumer metadata table are accessible by a second consumer

~~wherein the enabled probe identification is stored in the enabled probe identification component and the data is stored in the associated data set component, and~~

~~wherein the enabled probe identification is associated with metadata defining a layout of the data obtained using the probe.~~

2. (Currently Amended) The method of claim 1, further comprising:

defining a tracing function wherein the tracing function comprises [[an]] the first action[[;]]

~~associating the action with the enabled probe identification; and~~

~~associating the probe with the enabled probe identification~~.

3. (Currently Amended) The method of claim 2, wherein the tracing function is defined by [[a]] the first consumer.

4. (Currently Amended) The method of claim 3, wherein the first ~~enabled probe identification~~ EPID and the second EPID are [[is]] defined on a per-consumer basis.

5. (Canceled)

6. (Canceled)

7. (Currently Amended) The method of claim 4, wherein the first metadata includes at least one selected from the group consisting of an action name associated with the first action, a module name, a data size, a data type, and an action function for the first action.

8. (Canceled)

9. (Canceled)

10. (Canceled)

11. (Canceled)

12. (Canceled)

13. (Currently Amended) A system for storing a <u>first</u> data set <u>and a second data set,</u> ~~wherein the data set comprises an enabled probe identification component and a data component,~~ comprising:

    a probe ~~obtaining data from~~ <u>encountered during execution of</u> an instrumented program;

    a tracing framework associating the probe with [[an]] <u>a first</u> enabled probe identification <u>(EPID) and a second EPID, wherein the first EPID is associated with a first action and the second EPID is associated with a second action, wherein executing the first action obtains a first data from the probe, and wherein executing the second action obtains a second data from the probe;</u>

    a <u>first</u> per-consumer buffer storing the <u>first</u> data set <u>comprising the first EPID and the first data</u>, ~~wherein the data is stored in the data component and the enabled probe identification is stored in the enabled probe identification component; and~~

    [[an]] <u>a first</u> EPID-Metadata table relating the <u>first EPID</u> ~~enabled probe identification~~ to <u>a first</u> metadata defining a layout of the <u>first</u> data obtained from the probe<u>;</u>

    <u>a second per-consumer buffer storing the second data set comprising the second EPID and the second data; and</u>

a second EPID-Metadata table relating the second EPID to a second metadata
defining a layout of the second data obtained from the probe.

14. (Currently Amended) The system of claim 13, ~~further comprising:~~
wherein a consumer defines[[ing an]] the first action, wherein the tracing framework
assigns the first EPID ~~enabled probe identification~~ to the first action.

15. (Canceled)

16. (Currently Amended) The system of claim 14, wherein the first metadata includes at
least one selected from the group consisting of an action name, a module name, a
data size, a data type, and an action function.

17. (Currently Amended) The system of claim 14, wherein the first enabled probe
identification is defined with respect to the consumer.

18. (Currently Amended) A system for storing a first data set and a second data set,
~~wherein the data set comprises an enabled probe identification component and a data~~
~~component,~~ comprising:
    a probe ~~obtaining data from~~ encountered during execution of an instrumented
        program;
    a tracing framework:
        assigning [[an]] a first enabled probe identification (EPID) to [[an]] a
            first action;
        assigning a second EPID to a second action; and
        associating the probe with the first EPID ~~enabled probe identification~~
            and the second EPID, wherein executing the first action obtains a
            first data by the probe, and wherein executing the second action
            obtains a second data by the probe;

a ~~first~~ per-consumer buffer storing the <u>first</u> data set <u>comprising the first data and the first EPID:</u>~~, wherein the data is stored in the data component and the enabled probe identification in the enabled probe identification component; and~~

<u>a second per-consumer buffer storing the second data set comprising the second data and the second EPID;</u>

[[an]] <u>a first</u> EPID-Metadata table relating the <u>first EPID</u> ~~enabled probe identification~~ to <u>a first</u> metadata defining a layout of the <u>first</u> data obtained by the probe<u>; and</u>

<u>a second EPID-Metadata table relating the second EPID to a second metadata defining a layout of the second data obtained by the probe,</u>

wherein ~~the enabled probe identification is assigned to~~ the <u>first</u> action <u>is</u> defined by ~~the~~ <u>a first</u> consumer associated with the <u>first</u> per-consumer buffer<u>, and</u>

<u>wherein the second action is defined by a second consumer associated with the second per-consumer buffer.</u>

19. (Canceled)

20. (Currently Amended) The system of claim 18, wherein the <u>first</u> metadata includes at least one selected from the group consisting of an action name, a module name, a data size, a data type, and an action function.